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PHASE I BOOK EXPLOITATION

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Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th, Moscow, 1959.

Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii (Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova.

Responsible Ed.: A.M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya.D. Rozentsveyg. Tech. Ed.: V. V. Mikhaylova.

Card 1/16

115

Physicochemical Bases of (Cont.)

SOV/5411

PURPOSE: This collection of articles is intended for engineers and technicians of metallurgical and machine-building plants, senior students of schools of higher education, staff members of design bureaus and planning institutes, and scientific research workers.

COVERAGE: The collection contains reports presented at the fifth annual convention devoted to the review of the physicochemical bases of the steelmaking process. These reports deal with problems of the mechanism and kinetics of reactions taking place in the molten metal in steelmaking furnaces. The following are also discussed: problems involved in the production of alloyed steel, the structure of the ingot, the mechanism of solidification, and the converter steelmaking process. The articles contain conclusions drawn from the results of experimental studies, and are accompanied by references of which most are Soviet.

Card 2/16

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	Physicochemical Bases of (Cont.)	SOV/5411		
-	Shumov, M.M. Producing Steel and Semifinished Products in a Converter by Using Naturally Alloyed Chromium Pig Iron			
	Gurevich, B. Ye., V. D. Epshteyn, and T. V. Andreyev. Determining the Optimum Conditions of Slag Formation, Dephosphorization, and Decarburization of High-Phosphorus Pig Iron in a Semicommercial Converter With Oxygen Top Blowing		281	
	Baptizmanskiy, B.I., and Yu.A. Dubrovskiy Investigating the Converter-Steel Contamination in Oxygen Top Blowing		292	
	Mazun, A.I., and A.S. Ovchinnikov. Gas Content in Steel Made in a Converter With Various Types of Blasts and Blov	ving	299	
	Afanas'yev, S.G., M.M. Shumov, and M.P. Kvitko. Some Kinetic and Process Regularities in the Oxygen Top Blowin of Pig Iron	e g	308	
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S/137/61/000/012/010/149 A006/A101

AUTHOR 8

Shumov, M.M.

TITLE &

Melting of steel and semiproducts from crude-alloy chrome-nickel cast iron in a converter

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 12, 1961, 47-48, abstract 12V284 (V sb. "Fiz,khim. osnovy proiz-va stali", Moscow, Metallurgizdat. 1961. 268 - 280)

TEXT: TsNFIChM and the Novo-Tul'skiy Metallurgical Plant developed converter refinement of Kalilovo cast iron with top supply of technically pure 02. The work was performed in two directions: 1) refinement of cast iron with 2:5-3.0% Cr into low-alloy steel and carbon low-phosphorous semiproduct with about 0.8% Cr; 2) refinement of cast iron with 1.5% Cr melted from a mixture of grude-alloy and conventional open-hearth ores into low-alloy steel. On the whole 500 heats were produced, 47 of which with cast iron containing 1.4 - 1.6% Cr and 1.0-1.2% Ni. The heats were melted in a 7 - 9-ton converter, lined with magnesite, periclase-spindellide and chrome-magnesite bricks. It was established that when refining cast iron with 1.5% Cr, the process may be interrupted in the case of

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S/137/61/000/012/010/149 A006/A101

Melting of steel ...

a high C content. A technology was developed for melting high-grade steel from cast iron with 3% Cr; in order to determine technical and economical indices this method should however be tested under industrial conditions. The technology of obtaining a semiproduct in the converter proved to be very complicated; the yield of liquid steel was low and the stability of lining was poor. The technology of melting low-alloy CXJI-1 (SKhL-1), CXJI-4 (SKhL-4) and other steel grades from cast iron with 1.5% Cr does not present any difficulties in production; steel output attains 87 - 89%; S and P content in the metal are < 0.040%. To obtain steel with < 0.040% S at 0.5 - 0.6% Mn, the S content in the cast iron should be < 0.045%. Refinement in a basic converter of cast-iron with 1.1-1.2 Si is not expedient due to the reduced output of liquid steel, complicated technological process and reduced stability of the lining. The Si content should be < 0.8%. The N content in the steel when refining Khalilovo cast iron is about 0.007%. To obtain steel with a lower N content 02 should be of 99.5% purity.

P. Arsent'yev

[Abstracter's note: Complete translation]

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\$/123/62/000/003/001/008 A054/A127

AUTHORS:

Voinev, S. G., Kosoy, L. F., Shumov, M. H., Shalimov, A. G.,

Chekhomov, O. M., Andreyev, T. B., Afanas'yev, S. G., Kalinnikov,

Ye. S.

TITLE:

Refining converter steel with liquid synthetic slag in the ladle

PERIODICAL: Stal', no. 3, 1952, 226 - 232

TEXT: The good results obtained in refining electric steels with Equid lime-aluminous slag led to pilot-plant tests with converter steels, using the same method. Ill heats were smelted in a basic 8-ton converter; 46 of them were refined in the ladle with liquid synthetic slags of the following composition (in 5):

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Refining converter steel with...

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Steel grade	Number of heats	Ca0	_{V1} 5 ₀ 3	SiO ₂	MgO	FeC	cr ₂ 03
世 <i>X</i> 15 (ShKh 15)	6	55.25 53.04	<u>42.73</u> 41.47	1.90 3.85	0.79 0.80	0.82	0.30 0.17
12XH34,06H3 (12ChN3A),(06N3	5	52.49 49.82	42.46 35.94	2.02 5.06	0.78 0.82	0.90 7.69	0.92
CFB (SGV) (deep drawing st	eel) 7	53.10 51.37	<u>44.22</u> 38.34	2.19 4.52	0.75 0.93	0.65 4.05	0.23 0.23
<pre>// (I) (tool, earbon, c rail, axle steel</pre>	able, 14	53.58 52.51	1:11.08 40.92	2.06 3.61	0.69	0.70	0.15 0.13

(numerator: composition prior to metal treatment; denominator: composition after the treatment). The slag was melted in a 3-ton arc furnace, with hearth and banks of carbon blocks and carbon packing. The slags differed from those used for electric steels in that they contained more silica, ferrous exides and

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Refining converter steel with ...

chrome oxides. To maintain the fluidity and reactivity of the slag under the test conditions, its quantity was increased to 6.5% of the metal weight, the tempersture of the liquid slag in the furnace was raised to 1,750 - 1,850°C and the interval between pouring the slag and tapping the metal was reduced (to 2 min. 5 sec. on the average). The ladle was preheated to 600 - 800°C prior to slag tapping. The basic slag forming additives were common open-hearth lime (with up to 0.2% S), bauxite and in some cases (for medium-carbon and high-carbon steel grades) fluorite. Lime was added in two batches: prior to pouring the cast iron and 4 - 5 minutes after blowing started: the other two components were added together with lime. The quantity of the latter used for alloy and high-grade steels was 8 - 9%, for rail and axle steel 6 - 7% of the charge weight. ShKh15, 12KhN3A, OSN3 grades, deep-drawing steel and carbon (tool) steels were cast with fluorite (0.3 - 0.8% of the charge weight; the slag was tapped twice.) To determine the optimum cast iron composition, cast irons with components varying greatly in amount were used (0.28 - 0.78% Si, 0.50 - 1.80% Mn, 0.025 - 0.095% S, 0.085 -0.220P). The slags were very active already at the beginning of blowing. The basicity of slags (CaO:(SiO2+P2O5)) increased progressively (5 - 5 1/2 minutes after blowing started it was 2.0, at the end of blowing: 3.0 - 4.0). The synthetic slag refining method in converters with oxygen top blast results in a

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Refining converter steel with...

high degree of desulfuration. When cast irons are processed with a high (0.085 -0.095%) sulfur content, this could be reduced to 0.030 - 0.042% during blowing and to 0.009 - 0.013% after slag treatment. Desulfuration is most effective in the / 10- y134 (U10-U13A) grades (up to 72.8%), in axle steel (71.9%) and ShKh15 steel grade (67.8%). The final phosphorus content of steel can also be reduced to 0.020 - 0.030% by slag treatment, even if made of cast iron containing 0.22% phosphorus. The synthetic slag method reduces the content of oxygen and nonmetallic inclusions (sulfides, oxides) of the steel. Converter structural steel grades, refined by synthetic slag, have a greater ductility and notch toughness (mainly across the fibre), than conventional converter, open-hearth and electric steels. Most probably, the ductility is improved by the effect of the synthetic slag emulsion on the metal which reduces the sulfur content and non-metallic inclusions; a sub-microscopic silicium-oxygen phase may also have some effect. Slag-refined converter axle steels displayed a high ductility at -200, -400 and -60°C, the new refining method imparts the O6N3 cold-resistant converter steel at 150 - 183°C the same degree of frost-resistance as found in electric steels. The tests were carried out with A. N. Korneyenkov, G. V. Gurskiy, Ya. M. Bokshitskiy, A. K. Petrov, Ye. D. Mokhir, R. I. Kolyasnikova, G. A. Khasin, V. P. Danilin,

Card 4/5

KVITKO, M.P.; SHUMOV, M.M.; AFANAS'YEV, S.G.

Investigating the oxygen-converter process for the converting of low-manganese pig iron. Stal' 23 no.5:501-508 Je '63. (MIRA 16:10)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220003-3"

AFANAS'YEV, S.G.; DUKHANIN, A.S.; KVITKO, M.P.; SHUMOV, M.M.; DARUSHIN, R.I.; KOSHKIN, V.A.; ZAKHARENKO, N.I.; KRITININ, I.A.

Railroad rails made of oxygen-blown converter steel. Stal 24 no.1:72-73 Ja '64. (MIRA 17:2)

KAZANSKIY, V.V. (Moskva); LEVENETS, N.P. (Moskva); AFANAS'YEV, S.G. (Moskva); SHUMOV, M.M. (Moskva)

Viscosity of phosphate slags in the oxygen-blown converter process. Izv. AN SSSR. Met. i gor. delo no.6:64-69 N-D '64. (MIRA 18:3)

SHUMOV, N.D.

1. Cherepovetskiy metallurgicheskiy zavod.

(Loading and unloading—Equipment and supplies)

SHUMOV, N.D.

Cracks in the runway girders of coal reloading machines. Koks i khim. no.9:56-59 '63. (MIRA 16:9)

Cherepovetskiy metallurgicheskiy zavod.
 (Cranes, derricks, etc.—Maintenance and repair)
 (Beams and girders—Welding)

分子,不是一个人,我们也是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人, 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

SHUMSKAYA, N.I.

Labor safety in using epoxy resins. Mashinostroitel' no.12233-34 D 164. (MIRA 18:2)

SHUMOV, N.

Credit for operating capital for enterprises of the heavy industry. (In: Moscow. Nauchno-issledovatel'skii finansovyi institut. Nauchnye zapiski. Moskva, 1953, p.169-204.) (MLRA 7:2)

1. Moscow. Nauchno-issledovatel'skiy finansovyy institut. (Credit)

SHUMOV, N; BARKOVSKIY, N., redaktor; SUBBOTINA, K., redaktor; LEREMEV, A.,

[Short-term credit for industrial enterprises] Kratkosrochroe kreditovanie promyshlennogo predpriiatiia. Moskva, Gosfinizdat, 1954.

(MIRA 8:4)

(Credit)

SHUMOV, N. PODSHIVALENKO, P.; SHUMOV, N.

Paying by larger categories in the construction industry. Fin.i kred. SSSR no.3:35-43 Mr 154. (MLRA 7:4) (Construction industry--Finance)

SHUMOV, NIKOLAY SERGEYEVICH

N/5 773.1

RASCHETNYYE KREDITY GOSBANKA PROMYSHLENNYM PREDPRIYATIYAM (GOSBANK CREDIT PAYMENTS BY INDUSTRIAL ENTERPRISES) MOSKVA, GOSFINIZDAT, 1956.

SHUMOV, N.

The utilization of prefits of industrial enterprises. Fin. SSSR 17 no.3: 39-44 Mr '56. (MIRA 9:7)

(Industrial management) (Prefit)

SHUMOV, N.

Control work of financial organs. Fin. SSSR 17 no.12:8-16
D'56.

(Finance)

N/5 740.09 .55

SHUMOV, NIKOLAY SERGEYEVICH

Kontrol' finansovykh organov za finansovo-khozyaystvennoy deyatel'nost'yu promyshlennykh predpriyatiy (Check of financial devices for the finance and economy of industrial enterprises) Moskva, Gosfinizdat, 1957.

81 p. tables.

At head of title: Moscow. Nauchno--Issledovatel'skiy Finansovyy Institut.

SHUMOV, N.S

25(3)

PHASE I BOOK EXPLOITATION

SOV/1660

- Meyerovich, Grigoriy Mikhaylovich, and Nikolay Sergeyevich Shumov
- Finansirovaniye i kreditovaniye predpriyatiy legkoy promyshlennosti (Financing and Crediting Light Industry Establishments) Moscow, Gizlegprom, 1958. 241 p. 5,500 copies printed.
- Reviewer: M. I. Pevzner; Ed. (Title page): N. T. Nikitin; Ed. (Inside book): N. M. Segal'; Tech. Ed.: L. Ya. Medvedev.
- PURPOSE: The manual is intended for students in tekhnikums of the textile industry and other branches of light industry. It may also be useful to factory workers and serve also as a textbook for courses and seminars.
- COVERAGE: This manual discusses: 1) principles of financial organization in industrial establishments; 2) methods of planning and using capital accumulations and current assets; 3) the and using capital accumulations and current assets; 3) the sequence followed in financing capital construction and sequence followed in financing capital construction and general overhaul; 4) problems encountered in setting up financial

Card 1/6

Financing and Crediting (Cont.) SOV/1660	
plans; and 5) short-term crediting of establishments and ma payments. Data on production costs, income turnover, taxes quoted in this textbook in tables and calculations, are used illustrative purposes only. Chapters I, V, and VI were wriby N.S. Shumov, and Chapters II, III, IV, and VII by G.M. Mer are no references or personalities mentioned.	etc. for
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and product realization 2. Proceeds from product realization 3. System and structure of prices 4. Two forms of capital accumulation 1. Turnover tax 2. Income of establishments; industrial branches	18 26 30 35 36 41
Card 2/6	

SHUMOV, N.S., kand.ekonom.nauk; LAPTEV, Ye.N.; KAZANTSEV, A.I., kand. ekonom.nauk; ZUYEVA, Z.I.; KOCHEGAROVA, A.I.; SHRAYBER, I.I., kand.ekonom.nauk; TSAPIN, I.T.; KITAYGORODSKIY, I.P.; ZAVERNYAYEVA, L., red.; TELEGINA, T., tekhn.red.

的现在分词的<mark>是有效的</mark>出现的可能是是不是是不可能是要要的。

[Payments in industry] Raschety v promyshlennosti. Moskva, Gosfinizdat, 1959. 125 p. (MIRA 12:11)

1. Moscow. Nauchno-issledovatel'skiy finansovyy institut. 2. Zaveduyushchiy otdeleniyem Nauchno-issledovatel'skogo finansovogo instituta Ministerstva finansov SSSR (for Shumov). 3. Starshiy ekonomist Nauchno-issledovatel'skogo finansovogo instituta Ministerstva finansov SSSR (for Laptev). 4. Nachal'nik upravleniya kreditovaniya promyshlennosti sovnarkhozov Pravleniya Gosbanka SSSR (for Kazantsev). 5. Nachal'nik planovo-ekonomicheskogo otdela Moskovskoy gorodskoy kontory Gosbanka (for Zuyev). 6. Ekonomist Moskovskoy gorodskoy kontory Gosbanka (for Kochegarova). 7. Zamestitel' nachal'nika planovo-ekonomicheskogo upravleniya Rossiyskoy respublikanskoy kontory Gosbanka (for Shrayber). 8. Glavnyy bukhgalter moskovskogo khlebozavoda No.4 (for TSapin). 9. Ekspert otdela kredita i denezhnogo obrashcheniya Ministerstva finansov SSSR (for Kitaygorodskiy).

MEYEROVICH, Grigoriy Mikhaylovich; SHUMOV, Nikolay Sargeyevich, kand. ekon.nauk; MITEL MAN, Ye., otv.red.; FILIPPOVA, E., red. izd-va; LEBEDEV, A., tekhn.red.

[Financial organization in an industrial enterprise; based on materials of textile industry enterprises] Organizatsiia finansov na promyshlennom predpriiatii; po materialam predpriiatii tekstil noi promyshlennosti. Moskva, Gosfinizdat, 1960. 109 p. (MIRA 13:4) (Textile industry-Finance)

BIRMAN, A.M., doktor ekonom.nauk; BRAZOVSKAYA, T.I.; BELOUSOVICH, S.N.; VESELKOV, F.S.; KATSENKLENBAUM, Z.S.; IVLIYEV, I.V.; SEMENOV, I.Ya.; YAKOVLEV, M.S.; LAYKHTMAN, R.I.; GOFMAN, G.A.; SHUMOV, H.S.; VINOKUR, R.D., dotsent; TATSIY, G.M., red.; KONDRAT YEVA, A., red.; TELEGINA, T., tekhn.red.

[Finances of enterprises and branches of the national economy]
Finansy predpriiatii i otraslei narodnogo khoziaistva. Aytorskii
kollektiv pod rukovodstvom A.M.Birmana. Moskva, Gosfinizdat, 1960.
576 p. (MIRA 14:3)

1. Moskovskiy finansovyy institut (for Vinokur). (Finance)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220003-3 以此类的大学,这种主义是一个人,不是一个人,是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,这个人,他们也是一个人,他们也是一个人,他们也可以

SHUMOV, N. Payment on acceptances and letters of credit. Den. i kred. 18 no.9: 18-24 S 160.

(Letters of credit) (Acceptances)

SHUMOV, P.S.

Construction of cultural and communal institutions and organization of public services in Belgorod Province villages. Zdrav.Ros.Feder. 1 no.5:13-17 My 157.

1. Zaveduyushchiy Belogorodskim oblastnym otdelom zdravookhraneniya.

(BELGOROD PROVINCE--HOSPITALS, RURAL)

\$/0181/64/006/008/2539/2541

AP4043392

Sobolev, V. V.; Andriyesh, A. M.; Sy*rbu, N. N.; Shumov, ACCESSION NR: AUTHORS:

Reflection spectra of crystals of groups II-IV and III-VI s. D.

Fizika tverdogo tela, v. 6, no. 8, 1964, 2539-2541 TITLE:

TOPIC TAGS: indium antimonide, cadmium alloy, group II element, group III element, group IV element, group VI element, reflected radiation spectrum, band spectrum

This investigation was undertaken in connection with the great interest which is attached to compounds of the CdSb and In₂Te₃ type. The energy structure of crystals of groups II--V and III--VI was investigated at 290K in the region 1--6 eV. The reflection spectra of polished and etched crystals CdSb, ZnSb, 56% ZnSb-44% CdSb, Cd4Sb3, Zn3Sb2, Zn4Sb3, In2Se3, In2Te3, CdIn2Se4, Ga2Se3, Ga2Te3,

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AP4043392 ACCESSION NR:

GaSe, and GaTe were investigated. The similarities and differences It is concluded between the various spectra are briefly discussed. that in view of the similarity of their reflection spectra, the crystals CdSb, ZnSb, and Zn3Sb2, Zn4Sb3, and Cd4Sb3 have similar energy-band structures and nearly equal transition energies; general conclusion is that the compounds of groups II--V and III--VI

are close to compounds of groups III--V and II--VI not only in lattice structure but also in the type of bond and energy-band structure. Orig. art. has: 1 figure.

Institut fiziki i matematiki AN MoldSSR, Kishinev (Institute of Physics and Mathematics, AN MoldSSR) 01 ENCL:

SUBMITTED: 23Jan64

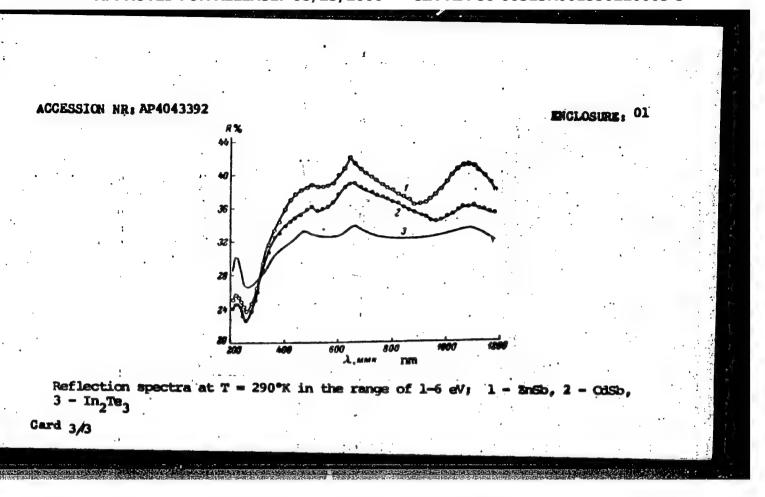
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001 OTHER:

2/3 Card



BRONNIKOV, K.Ye., podpolkovnik med.sluzhby, kand.med.nauk; SHUMOVA, S.V., podpolkovnik med.sluzhby

Late results of surgery for injured menisci of the knee joint.

Voen.-med.zhur. no.10:87 0 161. (MIRA 15:5)

(KNEE-SURGERY)

SHUMOV, V., ZEN'KOVICH, Z., IVANOV, A.,

"The Rhythmic Production of Diesel-Electric Locomotives Necessitates Strict Cooperation," Gudok, 37, No. 45, p. 3, 22 Feb 1957, Moscow Translation U-3,053,838

YERSHOV, Ye.M.; SUCHKOV, V.I.; SHUMOV, V.P.; FEDOROV, S.F.

Apparatus for amplitude and phase measurements in the inductive method. Geofiz.razved. no.4:48-64 *61. (MIRA 14:7) (Electromagnetic prospecting)

YERSHOV, Ye.M.; SUCHKOV, V.I.; SHUMOV, V.P.

Experimental studies of the electromagnetic fields of magnetic dipoles over mediums with horizontal and vertical interfaces. Geofiz.razv. no.13:102-122 '63. (MIRA 17:4)

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L 17160-65 EWT(1) ASD(a)-5/SSD/AFWI/AFETR/ESD(c)/E3D(gs)/ESD(t)

MLK
ACCESSION NR: AT4047269 S/0000/64/000/000/0175/0182

AUTHOR: Yershov, Ye. M.; Shumov, V.P. Suchkov, V.I.

H1 6

GW/

TITLE: Application of the induction method for solution of problems in geological mapping

SOURCE: Mezhvuzovskaya nauchnaya konferentsiya po induktivny*m metodam rudnoy geofiziki. Moscow, 1961. Trudy*. Moscow, Izd-vo Nedra, 1964, 175-182

TOPIC TAGS: geological mapping, geological prospecting, induced electromagnetic field, terrestrial electromagnetic field, magnetic dipole

ABSTRACT: The possibility of application of the induction method with amplitudephase measurements for the purposes of geological mapping is based on solution of
the problem of the electromagnetic field of the magnetic dipole at the earth - air
discontinuity. The magnetic moment of the magnetic dipole is considered to be pure
ly fictitious. The values of the electromagnetic field are computed in relation
to the parameter

 $p_1 = |kr| = \frac{2\pi r}{c} \sqrt{2\eta f}$

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 $p_1 = 2.81 \sqrt{\frac{f}{\rho}} r$

The electromagnetic field of an inclined magnetic dipole is a linear combination of the fields of the horizontal and vertical dipoles. It therefore is sufficient to solve the problem for each of them separately. Solutions are available for the problems of the fields of horizontal and vertical magnetic dipoles over a horizontally layered structure for a distant zone, i.e. | kr | >>1, and for the induced zone, i.e. | kr | < 1. No solutions have been available for the transitional zone where the parameter ranges from 1 to 9. In geophysical investigations by the induction method in which ultrasonic frequencies are used (120-80 kc/s), it is most common to deal with parameters of 1.5-7. The authors therefore modeled the fields of horizontal and vertical dipoles over a two-layer structure with horizontal discontinuities. The model experiments are described. In field investigations by the induction method the apparatus used makes it possible to measure both the phase and amplitude of the different magnetic field components. The apparatus consists of a generator and a receiving apparatus. The low-frequency generator has a loop antenna at the output. The resistivities of rocks are determined easily from the phase differences of the components of the inclined dipole. The receiver is a superheterodyne receiver with one heterodyne for two channels, both of which are completely identical. There are phase inverters in each channel and

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ACCESSION NR: AT4047269

installed in the second stage of a band-pass amplifier. The receiver is tuned to three fixed frequencies -- 20, 40 and 80 kc/s. Phase is measured at the intermediate frequency 465 kc/s, which makes it possible to simplify the phase inverter circuit considerably. The sensitivity of the receiver is 10 av on the scale of the indicator-type instrument. The antennas were loops at the inputs of both channels. This apparatus was used in developing the method of geological mapping in Karelia and the Transbaykal region (Yershov, Ye. M., Suchkov, V. I., and Shumov, V. P., Geofiz. razvedka, 1961, No. 4). Certain results of field investigations are reported in the paper reviewed. Orig. art. has: 6 formulas and 6 figures.

ASSOCIATION: Kompleksnaya tematicheskaya geofizicheskaya ekspeditsiya tresta Geofiznefteuglerazvedka (Complex Scientific Geophysical Expedition of the Geophysical Trust for Petroleum and Coal Prospecting)

SUBMITTED: 27Feb64

ENCL: 00

SUB CODE: ES, EM

NO REF SOV: 004

OTHER: 000

Card 3/3

SHUMOV, V. V.

"The Comet-Like Object in 1942, "Meteorniy Byull"." Izv. Turkmen FAN, No. 3(1946), pp. 3-4

CIA-RDP86-00513R001550220003-3 "APPROVED FOR RELEASE: 08/23/2000

LERMONTOVA, Ye.V.; CHERNYSHEVA, N.Ye., redaktor; SHUMOV, V.V., redaktor; MANINA, M.P., tekhnicheskiy redaktor

[Upper Cambrian trilobites and brachiopods near Boshchekul (northeastern Kazakhstan)] Verkhnekembriiskie trilobity i brakhiopody Boshche-Kulia (Severo-vostochnyi Kazakhstan). Moskva. Gos. izd-vo geologicheskoi lit-ry, 1951. 49 r. (Boshchekul--Trilobites, Fossil)

(Boshchekul--Brachiopoda, Fossil)

FOTEYEV, N.K., kand. tekhn. nauk; CHETVERIKOV, S.S., doktor tekhn. nauk prof., retsenzent; SHUMOV, Ye.G., inzh., retsenzent

[High-strength dies] Vysokostoikie shtampy. Moskva, Mashinostroenie, 1965. 257 p. (MIRA 18:7)

 L 39705-65 EPF(n)-2/EPR/EWP(k)/EWT(d)/EWP(h)/EWP(m)/FWP(b)/EWP(b)/EWP(l)/ EWP(e)/EWP(v)/EWP(t) Pf-h/Ps-h/Pu-h IJP(e) AT/WH/JD/JG UR/0121/65/000/004/0025/0026 40 AUTHOR: Chetverikov, S. S.; Shumov, Ye. G. 13 TITLE: Electrical-discharge machining of carbide chasers SOURCE: Stanki i instrument, no. 4, 1965, 25-27 TOPIC TAGS: carbide chaser, threading, threading tool, thread chasing, electrical discharge machining, carbide tool ABSTRACT: Fabrication of sintered-carbide, die-head chasers by electrical-discharge machining (EDH) is discussed. A circular rotating electrode (tool) with a profile and pitch corresponding to that of the thread reproduces its form on a tangential chaser. Using the high-frequency generator CIT-1 developed at TaNIL-ELEKTROM assures high metal-removal rates, a seventh-class of surface finish-[0.8-1.6 μ (rms)], and an absence of surface cracks. Kerosene is used as dielectric fluid. The machining conditions were as follows: capacitance, 3300 µµf for roughing and 1680 µµf for finishing; pulse duration, 4 µsec; pulse frequency, 20 kc; idle run Card 1/2

L 39705-65

ACCESSION NR: AP5010397

voltage, 120 v. As a rule, the entire profile is formed in one cut; only with a considerable length (for a number of blanks) or when high precision is needed is a second finishing cut (depth of cut, 0,2-0.3mm) required. A large batch of experimentally machined chasers from sixtered carbides of various types showed good performance characteristics. Orig. art. has: 5 figures. [SS]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00 SUB CODE: IE

NO REF SOV: 000

OTHER: 000 ATD PRESS: 3230

Card 2/2/16

MASLENNIKOV, N.D., kand.tekhn.nauk; MYSHONKOV, N.I., kand.tekhn.nauk; ALEKSEYEV, B.I., kand.tekhn.nauk; SHUMOV, Ye.N., inzh.; MASLOV, A.A., inzh.; YANKELEVICH, V.M., inzh.; IZYUMSKIY, F.P., inzh.

THE PROPERTY OF THE PROPERTY O

Investigating gas saturation of cast iron smalled in a cupola furnace. Mashinostroenie no.6:33-36 N-D *62. (MIRA 16:2) (Cast iron-Defects)

Venevtsev, Yu.N., Kapyshev, A.G. and Shumov, Yu.V.

AUTHOR:

An X-ray structural investigation of the system

TITLE:

PbTiO3 - BaSnO3. (Rentgenograficheskeye issledovaniye systemy

PbTiO3 - BaSnO3.)

"Kristallografiya" PSRIODICAL:

(Crystallography), 1957, Vol.2, No.2, pp.233-238 (U.S.S.R.)

ABSTRACT: X-ray powder photographs of the system PbTiO3 - BaSnO3 at various temperatures showed a continuous range of solid solutions. The phase diagram of (pb, Ba)(Ti, Sn)03 was constructed showing only two phases, one cubic (paraelectric), the other tetragonal (ferro-electric). The diagram agrees with thet traced from di-electric measurements by I.E. Myl'nikova. Curie temperature in this system falls more sharply with increasing Sn concentration than in the Pb(Ti,Sn)03 system.

Both SnTiO, and BaSnO, have the perovskite structure but the former compound is ferro-electric. Examination of their solid solutions was expected to elucidate some of the factors leading to ferro-electricity in the perovskite structures. Specimens were prepared in the Institute for Silicate Chemistry (IKhS AN SSSR) from EaCO3, TiO2, SnO2 and PbO by heating at

AND LESS BERTHALL SERVICE PROPERTY OF THE SERVICE O

An X-ray structural investigation of the system $PoTiO_3$ - $BaSnO_2$. (Cont.) BaSnOz. (Cont.)

1 250°C for one hour. X-ray powder photographs were taken with Cu or Cr radiation measuring particularly the high angle lines. The accuracy in the cell sides was about + 0.003 A.

A change from the tetragonal form (PbTiOz) to the cubic (BaSnO₂) took place at 43 mol % of the latter with no discontinuity in the cell volume. The ratio c/a does not decrease continuously to 1 but drops sharply from 1.005. High temperature photographs from 30 mol 3 BaSnO showed a Curie temperature of 190 + 10 C compared with 490°C for pure PbTiO3. Specimens with 43 mol 9 BaSnO3 have a Curie temperature about 15 C. A specimen with a Curie temperature of -183 C will have a composition of between 40 and 60% BaSnO. A rhombohedral phase of Pb(Ti,Sn)O, is found. The correctness of the factors proposed earlief by Venevtsev (Dissertation, MIFI, Moscow, 1955, and Izv. Ak. Nauk, Ser Fiz., 21, 2, 1957) as influencing the durie temperatures of compounds with t less than 1 is confirmed.

Discussions with Prof. G.S. Zhdanov and the assistance of Card 2/3 Dr. G.A. Smolenskiy and Cand. I.E. Myl'nikova are acknowledged. There are 4 figures and 19 references, 9 of which are Sh vic.

•An X-ray structural investigation of the system PbTiO₃ -

ASSOCIATION: Card 3/3

Physico-Chemical Institute im. L.Ya. Karpova. (Fiziko-Khimicheskiy Institut i. L.Ta. Karpova)

SUBMITTED:

November 16, 1956.

AVAILABLE:

Library of Congress

SHUMOV, Yu.V.

Representation of minerals on Russian maps of the 18th century. Geod. i kart. no.3:57-62 Mr 164. (MIRA 17:9)

SHUMCV, Yu.V. Discussing the agricultural atlas of the U.S.S.R. Izv. AN SSSR. Ser. geog. no. 4:160-161 J1-Ag '61.

(Agriculture--Maps) (MIRA 14:7)

BERZINA, L.A.; MAUERMAN, O.Ye.; OKINSHEVICH, Ye.A.; SHUMOVA, B.I.

Influence of various factors on antitoxic immunity to scarlet fever as shown by the Dick test in children. Vop.okh.mat. i det. 4 no.3:36-41 My-Je '59. (MIRA 12:8)

1. Iz infektsionnogo otdela (zav. - prof.M.Ye.Sukhareva) kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR G.N.Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey, epidemiolo-gicheskogo otdela (zav. - prof.Ye.M.Dmitriyeva-Ravikovich) Moskov-skogo nauchno-issledovatel'skogo instituta epidemiologii, mikro-biologii i gigiyeny i sanitarno-epidemiologicheskoy stantsii Kiyevskogo rayona Moskvy (glavnyy vrach I.F.Krasavin). (SCARLET FEVER)

SHERMAN, R.Z.; SHEVYAKOVA, O.I.; TATARINOVA, S.D.; SHUMOVA, B.I.; GOL'TSEKER, A.I.; KOLESNIKOVA, Yu.S.

Bacteriophage and tetracycline in the prevention of dysentery among contact children. Antibiotiki 10 no. 10:948-952 (MIRA 18:12)

1. Kafedra mikrobiologii (zav. - deystvitel'nyy chlen AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovershenstvo-vaniya vrachey i Sanitarno-epidemiologicheskoy stantsii (glavnyy vrach I.F. Krasavin) Kiyevskogo rayona, Moskva. Submitted Dec. 13, 1963.

SHUMOVA, I.A.

In vivo study of the effect of lead nitrate on the cell.

Trudy ISGMI 45:164-171 '58 (MIRA 11:11)

1. Kafedra obshchey biologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - chlen-korrespondent AMN SSSR, prof. P.V. Makarov). (LEAD--PHYSIOLOGICAL EFFECT)

SHUMOVA, I.A.

Cytochemistry of cancer cells of the human cervix uteri and breast. TSitologia 1 no.4:436-442 J1-Ag '59. (MIRA 12:10)

1. Kafedra obshchey biologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. (UTERUS--CANCER) (BREAST--CANCER) (NUCLEIC ACIDS) (POLYSACCHARIDES)

SHIMOVA

THE STATE OF THE PROPERTY OF T

Cytochemical studies on nucleic acids, proteins, and polysaccharides in human cervical and breast tumor cells. Biul.eksp.biol. i med. 48 no.7:68-72 Jl 159. (MIRA 12:10)

l. Iz kafedry obshchey biologii Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta. Predstavlena
deystvitel'nym chlenom AMN SSSR N.G.Khlopinym.

(NUCLEIC ACIDS - metab.)

(PROTEINS - metab.)

(POLYSACCHARIDES - metab.)

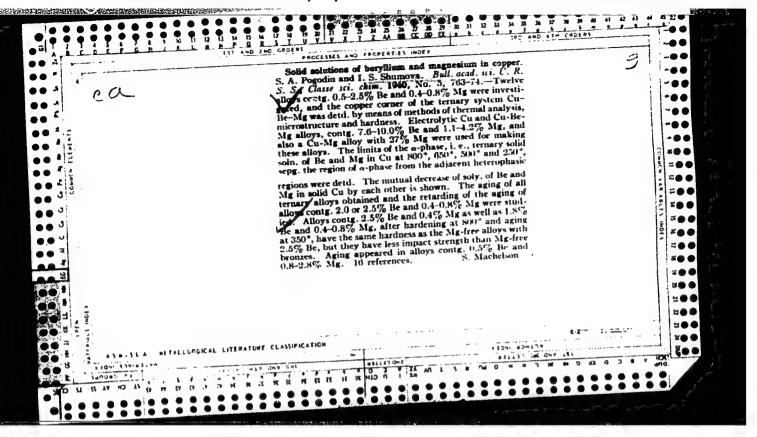
(BREAST - neoplasms)

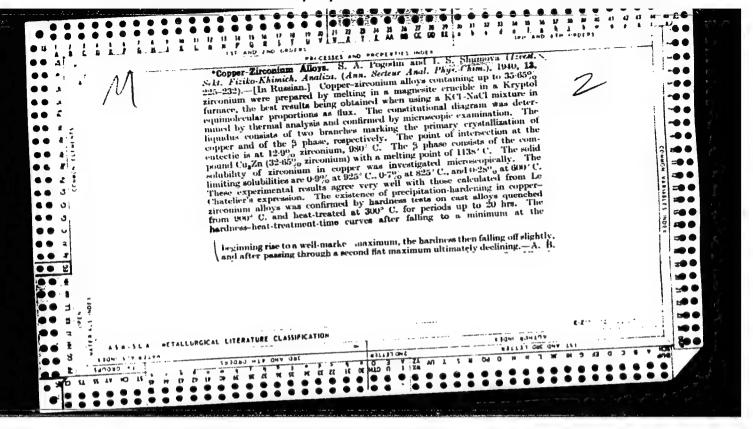
SHUMOVA, I. A., Dr.,

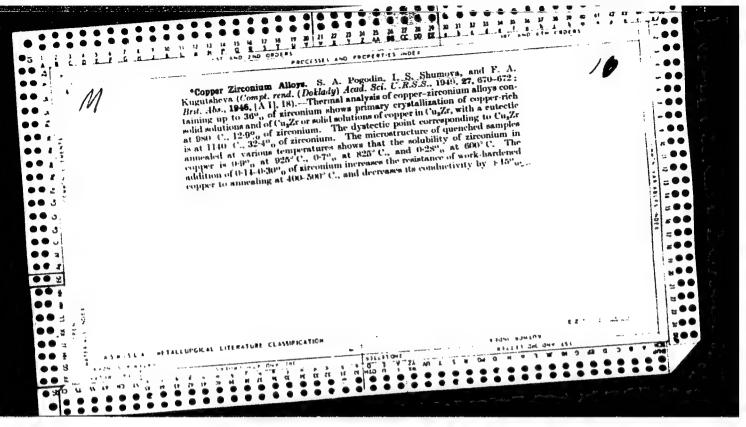
"About cytochemical differentiation of cancer cells."

To be submitted for the International Congress of Exfoliative Cytology, Vienna, Austria, 31 Aug-2 Sep 1961.

Institute of Evolutionary Physiology imeni I. N. Sechenov, Leningrad.







SHUMOVA, I.S.

POGODIN, S.A.; SHUMOVA, I.S.

Equilibrium diagram of the system aluminum - indium. Izv. Sekt.fiz.-khim. anal. 17:200-203 449. (MIRA 7:6)

Institut obshchey i neorganicheskoy khimii [im. N.S.Kurnakova]
 Akademii nauk SSSR. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut redkikh i malykh metallov.
 (Aluminum - indium alloys)

- 1. APOLLONOVA, L., SHUHOVA, N.
- 2. USSR (600)
- 4. Phonograph Records
- 7. Long-playing record. Radio, No. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

06438

SOV/107-59-5-33/51

AUTHORS: Apollonova, L., Shumova, N.

TITLE: Stereophonic Records

PERIODICAL: Radio, 1959, Nr 5, pp 42 - 45 (USSR)

ABSTRACT: The authors describe in detail the stereophonic re-

cording system which was developed abroad. They mention the 45/45 system recommended by the International Electrical Engineering Commission. There

are 7 diagrams, 1 table and 1 graph.

Card 1/1

6(5)

APOLLONOVA, Lyubov' Pavlovna; SHUMOVA, Nina Dmitriyevna; KOROL'KOV, V.G., red.

[Mechanical sound recording] Mekhanicheskaia zvukozapis.
Moskva, Energiia, 1964. 240 p. (MIRA 17:12)

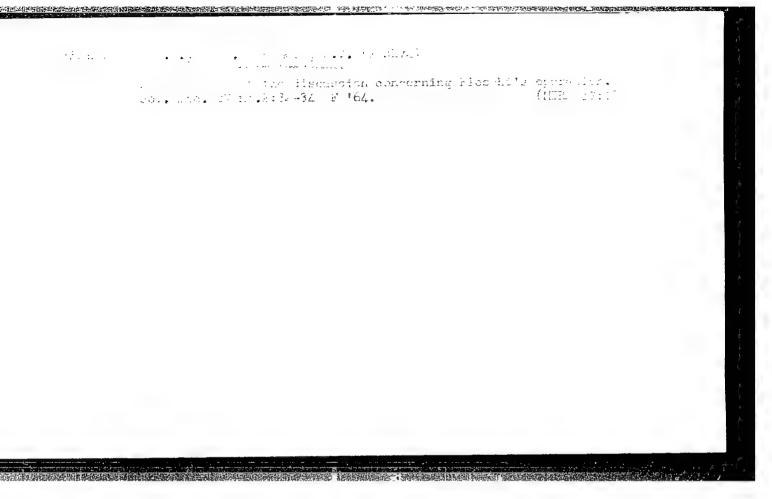
APOLLONOVA, L.P.; SHUMOVA, N.D.

Distortions caused by the tone arm of the sound pickup and ways to reduce them. Trudy VNAIZ no.5:34-49 159. (MIRA 15:4) (Sound—Recording and reproducing) (Phonographs—Testing)

"APPROVED FOR RELEASE: 08/23/2000

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	ı ğ	USSI,/Medicine	Endagenous hypercholesteremia may be caused by a glisease of the central cholesterin depot in the brain associated with phenomena of degeneration of myelin fibers, with myelin decomposition, and with	"Arkhiv Patol" Vol X, No 6	the	:	
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		al Mervoi	proholesteremia may be cause central cholesterin depoted with phenomena of degenerath myelin decomposition	80 6		- Central Norvoni Sy - Hypercholesteremia	
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04 <u>16</u> 4/19	component of		be caused by a depot in the degeneration of sition, and with 61/49740		of the Importance intral Nerve of Hyperchole- Path Physicl, 10 pp	Mov/Dec 48	
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SHUMOVA, O. /.

Shumova, O. V. -- "The Pathogenesis and Treatment of Diseases from Burns." Acad Med SciUSSR. Moscow, 1956. (Disseration For the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

SHUMOVA, O.V., kand. med. nauk.

Result of treatment of burns by the A.V. Vishnevskii method. Sov. med. 22 no.12:60-65 D '58. (MIRA 12:1)

1. Iz 3-go khirurgicheskogo otdeleniya (zav. - prof. G. D. Vilyavin)
Institut khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen
Akademii meditsinskikh nauk SSSR prof. A.A. Vishnevskiy).

(BURNS, ther.

(Rus))

SHUMOVA, O.V., kand.med.nauk

Pathogenesis and treatment of pulmonary edemas in mitral stenosis. Zdrav. Kazakh. 21 no.9:9-12 '61. (MIRA 14:10)

l. Iz 1-go khirurgicheskogo otdeleniya (zav. - doktor med.nauk N.K.Galankin) Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR. (BULMONARY EDEMA) (MITRAL VALVE—DISEASES)

SHUMOVA, O. V., Moskva, Leninskiy prosp., d. 87a, korp. 1. kv. 48

Surgical treatment of mitral insufficiency. Grud. khir. 4 no.1: 10-12 Ja-F '62. (MIRA 15:2)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy)

(MITRAL VALVE-SURGERY)

VIIYAVIN, Georgiy Danilovich, prof.; SHUMOVA, Olimpiada Vasil'yevna, kand. med.nauk; GINZBURG, R.L., red.; MIRONOVA, A.M., tekhn. red.

SEASTING PATENCE SEALER SEASTER SEASTER SEASTING SEASTING SEASTING SEASTING SEASTING SEASTING SEASTING SEASTING

[Tathogenesis and treatment of burn disease] Patogenez i lechenie ozhogovoi bolezni. Moskva, Medgiz, 1963. 275 p. (MIRA 16:12)

(BURNS AND SCALDS)

AUTHORS: Polivanov, V.V., Il'in, V.V. SOV/48-23-4-4/21

Iz"yurov, A.V., Pyatakov, N.I., Shumova, R.V.

TITLE: The Feeding Installation of Electron Microscopes UEMB-100

(Pitayushcheye ustroystvo elektronnogo mikroskopa UEMB-100)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1959.

Vol 23, Nr 4, pp 450 - 453 (USSR)

end the same and separate the transfer of the separate state of th

ABSTRACT: First, mention is made of the investigation carried out by

Leisegang (Ref 1), and it is pointed out that the require-

ment in electron microscopes with voltages as high as 100 kv of not allowing voltage and current fluctuations

at the lenses to exceed 14.10⁻³ % can be met only by electronic stabilization of the current source. Figure 1

shows the block diagram of the apparatus. The electromagnetic stabilizer SNE-220-0,5 is made use of in the scheme. The lens current is electronically stabilized, its fluctuation

amounting to 0.001%. The number of ampere turns of all

lenses can be varied in a wide range. The selenium rectifiers for the high voltage of 100 kv allow a load of 120 AA, the

Card 1/2 electronic stabilization of this high voltage occurs through

The Feeding Installation of Electron Microscopes SOV/48-23-4-4/21 UEMB-100

anode tubes of the type 6Kh6S. Here as well, voltage fluctuation amounts to 0.001%. A description follows of the current supply into the vacuum cell of the instrument. Figure 4 shows the scheme of the focusing electrode of the electron accelerator, in which a diode of the type 2D9S is used. Finally, the present paper deals with the mechanical construction of the current source, the insertion into the whole instrument, and its applicability. There are 6 figures and 3 references, 1 of which is Soviet.

Card 2/2

17(

SOV/177-58-9-2/51

AUTHORS:

Zotov, A.P., Colorel of the Medical Corps, Shumova,

S.V., Lieutenant-Colonel of the Medical Corps

TITLE:

Analysis of Traumatism and Prophylactic Measures

(According to Material of a Hospital)

PERIODICAL:

Voyenno-meditsinskiy "hurnal, 1958, Nr 9, pp 7-10

(USSR)

THE WASHINGTON TO THE PROPERTY OF THE PROPERTY

ABSTRACT:

The author tabulates and reports or traumatic cases of soldiers. The article is based on data of a garrison hospital and a treatise by N.D. Krivonosov, published in 1952. Most of the injuries occurred during off-duty hours. The author distinguishes injuries connected with economic work, casual injuries sus-

tained during duty hours are, mainly, sports injuries. Injuries to the lower extrementation of prophylactic measures reduced the injuries in garrieons "by half". There

are 4 tables.

Card 1/1

BRONNIKOV, K.Ye., kand.med.nauk; SHUMOVA, S.V.

Meniscus injuries of the knee joint. Vest.khir. no.4:38-42

(MIRA 14:4)

(KNEE-WOUNDS AND INJURIES)

SHUMCHA, S. V. (Lieutement Colonel of the Medical Service) BROWNIKOV, K.YE.

"Remote Results of Surgical Treatment of Injuries to the Knot Joint Menisci"

Voyenno-Meditsinskiy Zhurnal, No. 10, October, 1961

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550220003-3

IJP(c) EWI(m)/EWP(t)/ETI JD/JG L 05206-67

ACC NR: AP7000758

SOURCE CODE: UR/0075/66/021/006/0754/0757

AUTHOR: Sotnikov, V. S. Korolev, N. V. Shumova, V. V. and Forozova, M. N.

ORG: none

TITLE: Use of an emission microspectral method in the analysis of alloys for semiconductor devices

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 6, 1966, 754-757

TOPIC TAGS: emission spectrum, indium alloy, gallium alloy, gold alloy

ABSTRACT: A microspectral method for the analysis of the In - Au - Ga and other alloys in specimens weighing less than 0.5 mg is examined. Alloy specimens in tablets 50X150 microns in size were placed on a polished surface of a glass bar, and then the specimens were covered with a copper plate about 1 rm thick which was tapped lightly with a hammer so that the specimens were secured to the surface of the copper plate. Then tablets were secured to the surface layer of the plate. Pellets of standard alloys were similarly secured to a copper plate, and a microspectral analysis was made. Copper wire 0.6 in in diameter with ends cut at a 1300 angle served as the electrode. The distance between one of the electrodes from the surface of the specimen was 1 mm; the second electrode was connected to the copper plate. Orig. art. has: 2 figures and 1 table. [JPRS: 37,177] SUB CODE: 11,20/ SUBM DATE: 02Jun65 / CRIG REF:

Cord 1'1

SHUMOVA, Zinaida Ivanovna; SOBKINA, Irina Viktorovna; GUSMAN, M.T., redaktor; KOVALEVA, A.A., vedushchiy redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Concise manual on turbine drills] Kratkii spravochnik po turboburam.

Moskva. Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry.

1956. 141 p.

(Boring machinery)

Mundon 21

93-4-1/20

AUTHOR:

Nurshanov, V.A., Shumova, Z.I.,

TITLE:

Advanced Turbine Drilling Methods Must Find Wider Application (Shire ispol'zovat' peredovoy opyt

ekspluatatsii turboburov)

PERIODICAL:

Neftyanoye Khozyaystvo, 1957, Nr.4, pp.1-5 (USSR)

ABSTRACT:

The use of turbodrilling equipment manufactured by the Uralmashzavod has yielded positive results. Turbodrilling meterage has been up to 5 million meters per annum, constituting 84.7 percent of the total USSR drilling, and 99.8 percent of the drilling operations of the Glavvostokneftedobycha Trust. New types of turbodrills are being used in exploratory drilling. They are able to drill bore holes 8 to 12 inches in diameter, and over. Although operating conditions are becoming more difficult with increasing depths, the management has failed to

put the necessary effort into solving the problem of turbodrill operation and repair. An investigation of the

Card 1/4

Kuybyshevneft', Bashneft', and Chkalovnefterazvedka

93-4-1/20

Advanced Turbine Drilling Methods Must Find Wider Application. (Contd).

enterprises has revealed that the quality of turbodrill maintenance work is grossly inadequate. As a result, life of the turbodrills is being greatly reduced. table, which is included in the text, gives data on the life of turbodrills used by different enterprises. For example, turbodrill life at one of the Tuymazaburneft' drilling units was 40 to 60 hours before 1956. is 18 hours, having been shortened by improper operating practices and faulty repair work. In many cases the manufacturing plants deliver equipment with obvious imperfections, while in other cases breaks occur in certain parts as a result of poor heat treatment. Among the plants producing defective parts is the "Borets" plant (affiliated with Glavneftemash) and the Petrov plant (located in Stalingrad). Despite the efforts of the VNIIBurneft' the Sverdlovsk and Leningrad rubber plants have failed to standardize their production of petroleum-resis-

Card 2/4

93-4-1/20

Advanced Turbine Drilling Methods Must Find Wider Application. (Contd).

tant rubber parts for the turbodrill. Glavnefterazvedka, which has under its jurisdiction 7 prospecting offices and 49 exploratory drilling units, has only 17 repair shops. These lack adequate equipment, which reflects in the quality of their repair work, as confirmed by tests conducted on an experimental electrified production drilling rig belonging to the Azerbaydzhan branch of the Petroleum Industry. Seventy percent of 80 reconditioned Tl2M2-10 turbodrills had a rotation moment ranging from 70 to 100 percent of the nominal moment, while the remaining thirty percent had a moment ranging from 30 to 70 percent. The present repair shops are too small for the volume of work required. Occasionally, a section of the drilling rig serves as a repair shop (e.g., at the Ozek-Suata, Grozneft', drilling enterprise, where this was the case until September 1956). Life of the T12M2-10 turbodrill can be extended by a better make-up of the threaded ends (torque moment 1800-2000, instead of 1200 kg). This is often impossible to put into practice, due to the lack of proper power

Card 3/4

SHUE:OVA, Zinaida Ivanovna; PETROVA, Ye.A., ved.red.; POLOSINA, A.S., tekhm. red.

[Practical guide on the operation of turbodrills] Prakticheskoe rukovodstvo po ekspluatatsii turboburov. Moskva, Gostoptekhizdat, 1962. 209 p. (MIRA 15:3) (Turbodrills)

SHUMOVICH, M., prepodavatel osnov tekhnicheskoy mekhaniki

In the study room for technical mechanics. Prof.-tekh. obr. 19 no.9:14-15 S '62. (MIRA 15:10)

1. Remeslennoye uchilishche No. 47, Moskva.

(Mechanics-Study and teaching)

SHUMOVICH, M., prepodavatel' tekhnicheskoy mekhaniki

School of technical creativeness. Prof.-tekh. obr. 20 no.12: 13-15 D '63. (MIRA 17:1)

1. Moskovskoye professional no-tekhnicheskoye uchilishche No.27.

SHUMOVICH, M.

Seminar in the laboratories of an institute. Prof. dakh. ot., 21 nr.7817411 Jl 164. (MIRA 17911)

SHUMOVICH, M.

Why it is difficult to inculcate progressive practices. Prof.-tekh. obr. 22 no.4:29-30 Ap *65. (MIRA 18:5)

31,888 \$/081/62/000/003/067/090 3149/3101

11.0132 AUTHORS:

Dorogochinskiy, A. Z., Mel'nikova, N. P., Svetozarova, O. I.,

Shumovskava, V.

TITLE:

Effect of the degree of selected hydrogenation of unsaturated hydrocarbons in thermocracking distillate on its thermostabili-

Referativnyy zhurnal. Khimiya, no. 3, 1962, 485, abstract 3M152 (Tr. Groznensk. neft. n.-i. in-t no. 11, 1961, 53 - 57) PERICUICAL:

TEXT: The effect of the group composition of hydrocarbons on the thermal stability of the distillate from thermocracking, boiling out at 30 - 260 (obtained from the mazout of Groznenskiy paraffin-based mixed petroleum), after sclective hydrogenation to different degrees of the unsaturated hydrocarbons (original content in the distillate: 36.4%) was investigated. It was shown that the decrease of the fuel thermal stability depended on the presence of diolefins and aromatic hydrocurbons with unsaturated side chains. Mild hydrogenation (up to 16%) of the unsaturated hydrocarbons from the distillate resulted in a fuel with satisfactory thermal stability. Card 1/2

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·. USIR (60°)

4. Cartography

7. Arabian cartography in its crigin and development, Izv. Vses. geog. ob-va 79, no. 5, 1947.

9. Monthly List of Russian Accessions, Library of Congress, ______1953, Uncl.

SHUMOVSKIY, T.A., ORBELI, I.A., akademik, otvetstvennyy redaktor; BLEYKH, E.Yu., tekhnicheskiy redaktor

[Three unknown sailing directions by Vasco de Gama's Arab pilot,
Ahmad Ibn Majid, in the unique manuscript at the Oriental Institute
of the Academy of Sciences of the U.S.S.R.] Tri neizvestnye lotsii
Akhmada ibn Madzhida arabskogo lotsmana Vasko da-Gamy v unikal'noi
rukopisi Instituta Vostokovedeniia AN SSSR. Predislovie D.A.
Ol'derogge. [Perevod] Moskva, Izd-vo akad. nauk SSSR, 1957.
193 p.

(Pilot guides)

SHUMOVSKIY, T.A.

Arabian navigation in the middle ages. Izv. Vses.geog.ob-va 89 no.1:57-60 Ja-F '57. (MLRA 10:3) (Navigation) (Arabs)

SHUMOVSKIY, T.A.

Theory and practice in Arabian geography. Strany i nar. Vost. no.2:143-159 '61. (Geography)

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Identification of two Muslim maps in the Russian translation of "Book of travels" by Nasir-i Khusrau. Mat. Vost. kom. Geog. ob-va SSSR no.1:47-54 '62. (MIRA 16:9)

sov/65-59-4-8/14

AUTHORS: Minasyan, T.S., Pal'chikov, G.F., Bolotov, L.T.,

Ovsyannikov, P.V., Shumovskiy, V.G., Afanasenko, M.M.,

Rusakov, A.P. and Karpenko, T.G.

TITLE: Investigations in the Groznyy Plants on the Catalytic

Purification of Middle Distillates Obtained During

Thermo-Cracking Processes (Iz opyta raboty groznenskikh zavodov po kataliticheskoy ochistke srednikh distillyatov

termicheskogo krekinga)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,

pp 44-48 (USSR)

ABSTRACT: The octane numbers of gasolines can be improved by

catalytic cracking of the kerosine-gas-oil fractions,

obtained during fractional distillation. This,

however, seems unsatisfactory because these fractions are

high quality starting materials for jet and diesel fuels etc. The middle fractions, obtained during thermal

cracking, used as diesel fuels, contain a high quantity of unsaturated hydrocarbons and have a low cetane number.

The quality of diesel fuels can be improved by using

aluminium silicate catalysts and enriched secondary

Card 1/3 distillates. In this way, the consumption of unsaturated

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Investigations in the Grozmyy Plants on the Catalytic Purification of Middle Distillates Obtained During Thermo-Cracking Processes

> compounds is decreased and the cetane number of the diesel fuels increased, whilst maintaining the standards required by GOST for diesel fuels. Tests were carried out on substances obtained after second distillation of the broad fraction and also by using mixtures of these substances and the kerosine fraction obtained during thermal cracking. The properties of the tested materials are given in table 1 and the process conditions in table 2. Some high octane gasoline was obtained during this process. This was purified, washed and reacted with an 18 to 20% NaOH solution. After stabilisation it was purified again, treated with a 15 to 18% NaOH solution and washed. The stabilised pure gasoline had an octane number of 76. A catalyst of decreased activity (29 to 30) was used during the enriching process. The properties of the aluminium silicate catalysts are given (table 3). Table 4 gives the hydrocarbon composition of the gas. The catalytic cracking of middle fractions can

Card 2/3

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Investigations in the Grozhyy. Plants on the Catalytic Purification of Middle Distillates Obtained During Thermo-Cracking Processes

be carried out on existing cracking plants and it is pointed out that the deposition of coke does not exceed the allowed limits. There are 4 tables.

Card 3/3

 s/081/61/000/021/070/094 B138/B101

Bolotov, L. T., Shumovskiy, V. G., Ovsyannikov, P. V., AUTHORS:

Pal'chikov, G. F., Minasyan, T. S., Afanasenko, M. M., Rusakov,

A. P., Burlakov, A. G., Karpenko, T. G.

Pilot run for the commercial processing of a secondary raw TITLE:

material on a catalytic cracking unit

Referativnyy zhurnal. Khimiya, no. 21, 1961, 401 - 402, PERIODICAL:

abstract 21M82 ([Tr.] Groznensk. neft. in-t. sb. 23, 1960,

97 - 105)

TEXT: With the aim of increasing supplies of quality high-speed diesel fuels, experiments have been conducted, in commercial conditions, for the refining of the medium fractions of the thermal cracking process by redistribution of the hydrogen on the aluminosilicate catalyst. The characteristics of the starting material and of the end product are enumerated. It is said that it would be possible to use this method for the production of the components of high-octane automobile gasolines and low pour-point high-speed diesel fuels. Data are given for the production Card 1/2

S/081/62/000/012/046/063 B156/B144

AUTHOR:

Shumovskiy, V. G.

TITLE:

Diesel fuel produced from thermal cracking kerosene

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1962, 503, abstract 12M151 (Novosti neft. i gaz. tekhn. Neftepererabotka i nefte-

khimiya, no.9, 1961, 3-6)

TEXT: The ideal conditions for catalytic refining of kerosene to produce a diesel fuel component have been determined on the basis of two years' operation of an industrial plant at the Groznyy refinery. It has been established that the process can be carried out in standard catalytic cracking plant. [Abstracter's note: Complete translation.]

Card 1/1

Deceased 1993

Metaliurgy Sec IIC

SHUMOVSKY, Yurij F.

[Under the blazing African sun] Pid hariachym sontsem Afryky.
Vinnipeg, Drukom i nakladom Vyd.spilky "Tryzub," 1956. 169 p.
(MLRA 9:12)

(Africa--Description and travel)

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82096 \$/184/60/000/03/06/010

AUTHORS:

Yukalov, I.N., Candidate of Technical Sciences, Shumratova, G.N.,

Engineer

TITLE: Nickel-Mo

Nickel-Molybdenum and Nickel-Silicon Acidproof Alleys

FERIODICAL:

Khimicheskoye mashinostroyeniye, 1960, No. 3, pp. 28 - 31

New technological processes in the chemical industry, e.g. the evaporation of acids in a vacuum, require special equipment made of alloys with specific physical-chemical properties. For manufacturing this equipment certain nickel-molybdenum - silicon and nickel-chromicum-molybdenum alloys can be used. Nickel-molybdenum alloys 34 460 (EI460) 34 461 (EI461) (corresponding to TU No. 1044), Hastelloy A, B and C have a high corrosion-resistance in a number of aggressive media. Their mechanical properties are close to those of high-grade steels. The manufacturing of seamless pipes of these alloys is not mastered; electrically welded, thin-walled pipes can be used. The EI460 alloy (about 20% Moucantent) has a high corresion-resistance in hydrochloric and sulfuric acids of any concentration and in their salts at 20°C. In sulfuric acid it maintains its resistance up to 50°C and at 100°C it is resistant when the concentration does not exceed 30-50%. In hydrochloric acid

Card 1/6